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Department of
Mechanical Engineering

Minutes of CDMC Meeting

18-03-2017

The members of Curriculum Design and Monitoring Committee for B.Tech Mechanical Engineering program met on 18-03-2017 at AGF-04, 'U' block, of VFSTR. The following members attended the meeting.

S.No	Members	Designation	Signatures
1.	Dr. M Ramakrishna, Professor & HoD	Chairman	
2.	Mr. D Satyanarayana, Associate Professor	Member	
3.	Mr. G Suresh, Assistant Professor	Member	
4.	Mr. N B Prakash T, Assistant Professor	Member	

Agenda of the meeting
1. Analysis of the feedback collected from various stakeholders such as Alumni, Employers, Faculty, Parents and Students during the academic year 2016-17.

The following are the important points of analysis obtained from various stakeholders:

1. Students are expecting statistical quality analysis course which helps them when they join in industry.
2. Topics related to micro and nano machining needs to be introduced in manufacturing process course.
3. They are expected to establish 3D printing laboratory in the department for better understanding of Additive manufacturing.
4. Students are expecting more topics on advanced materials in MSM course
5. They are expected to have some introduction to Engine Management system
6. They are expected to have foreign language course in the curriculum
7. Training in various skill development centers need to be planned
8. Design course need more topics on basic machine component design.
9. Topics related to practical transmission elements need to be emphasized.
10. Students are expecting more electives with respect to different specializations in mechanical engineering.

Detailed feedback analysis report is enclosed as Annexure-I

The outcomes of the meeting will be placed before the BoS for further discussion and recommendations.

Chairman,
CDMC

Annexure-I

FEEDBACK ANALYSIS OF ALUMNI ON B.Tech-Mechanical Engineering Curriculum in AY: 2016 – 17

Feedback has been received from the Alumni on the following parameters:

Q1.Curriculum has paved a good foundation in understanding the basic engineering concepts

Q2.Course Contents of Curriculum fulfilled the specified Program Outcomes

Q3.Curriculum imparted all the required Job Oriented Skills / prerequisite to pursue higher education

Q4.Electives of Curriculum served the technical advancements needed to serve in the industry

Q5.Tools and Methodologies followed during practical sessions has enriched the required practical knowledge to serve in Industry

Q6.Competency with your peers from other Institutions

Q7.Current curriculum meets the present industry demands

The categorization of rating is as follows: Strongly Agree (5), Agree (4), Moderate (3), Disagree (2) and Strongly Disagree (1).

Feedback Analysis is carried based on Average Satisfaction Rating. Rating categorization is carried based on Excellent ($\geq$4); Very Good ($\geq$3.5&<4); Good ($\geq$3&<3.5); Moderate (>2 &<3) and Unsatisfactory (<2)

Feedback from Alumni.2016-17 (Academic Year) - UG – B. Tech (ME)

The result derived in terms of percentage of Alumni with common views, average score, and ratings is presented in Table 1.

Table 1: Analysis of feedback from Alumni 2016–17

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	63.6	24.2	12.1	0	0	4.511	Excellent
Q2	66.7	33.3	0	0	0	4.667	Excellent
Q3	84.8	15.2	0	0	0	4.848	Excellent
Q4	81.8	18.2	0	0	0	4.818	Excellent
Q5	63.6	18.2	18.2	0	0	4.454	Excellent
Q6	87.9	12.1	0	0	0	4.879	Excellent
Q7	84.8	3	12.1	0	0	4.723	Excellent

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The highest score of 4.879 was given to the parameter "Competency with your peers from other Institutions".

Followed by "Curriculum imparted all the required Job Oriented Skills / prerequisite to pursue higher education" and "Electives of Curriculum served the technical advancements needed to serve in the industry" with a score of 4.848 and 4.818 has been rated as Excellent.

It is clearly visible from the table that the parameters "Current curriculum meets the present industry demands", "Course Contents of Curriculum fulfilled the specified Program Outcomes", "Curriculum has paved a good foundation in understanding the basic engineering concepts" and "Tools and Methodologies followed during practical sessions has enriched the required practical knowledge to serve in Industry" obtained average 4.723, 4.667, 4.511 and 4.454 respectively has been rated as Excellent.

FEEDBACK ANALYSIS OF EMPLOYERS ON B.Tech-Mechanical Engineering Curriculum in AY: 2016 – 17

Feedback has been received from the employer on the following parameters:

Q1. Course Contents of B.Tech Mechanical Engineering Curriculum is in tune with the Program Outcomes

Q2. Relevance of the Course Contents in tune with the Industry Demands

Q3. Elective are in-line with the technology advancements in Modelling and Manufacturing Sectors

Q4. Applicability of the tools and technologies described in the curriculum will be enough to practice in Industry

Q5. Problem Solving and Soft Skills acquired by the students through the course contents will enable them to be placed in product and process industry

The categorization of rating is as follows: Strongly Agree (5), Agree (4), Moderate (3), Disagree (2) and Strongly Disagree (1).

Feedback Analysis is carried based on Average Satisfaction Rating. Rating categorization is carried based on Excellent (≥4); Very Good (≥3.5&<4); Good (≥3&<3.5); Moderate (>2 &<3) and Unsatisfactory (<2)

Feedback from Employer 2016-17 (Academic Year) - UG – B. Tech (ME)

The result derived in terms of percentage of employer with common views, average score, and ratings is presented in Table 2.

Table 2: Analysis of feedback from Employer 2016–17

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	72.7	18.2	9.1	0	0	4.636	Excellent
Q2	9.1	63.6	18.2	0	0	3.545	Very Good
Q3	45.5	27.3	18.2	9.1	0	4.095	Excellent
Q4	72.7	18.2	9.1	0	0	4.636	Excellent
Q5	18.2	54.5	18.2	9.1	0	3.818	Very Good

The highest score of 4.636 was given to the parameter "Applicability of the tools and technologies described in the curriculum will be enough to practice in Industry" and "Course Contents of B.Tech Mechanical Engineering Curriculum is in tune with the Program Outcomes" followed by "Elective are in-line with the technology advancements in Modelling and Manufacturing Sectors" with a score of 4.095 has been rated as Excellent.

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It is clearly visible from the table that the parameters "Problem Solving and Soft Skills acquired by the students through the course contents will enable them to be placed in product and process industry" obtained average score of 3.818 has been rated as Very Good.

The parameter "Relevance of the Course Contents in time with the Industry Demands" obtained the scores of 3.545 and has been rated as Very Good which will be considered and benefit the students.

Time to time meetings were conducted at the department level to leverage new and advanced techniques to improve the problem solving skills and soft skills of the students which enable them to be placed in Mechanical Industry.

The feedback analysis given by employer reveals that by improving the required skills of students and enable Industry Demands helps the student to get placements.

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FEEDBACK ANALYSIS OF FACULTY ON B.Tech-Mechanical Engineering Curriculum in AY: 2016 – 17

Feedback has been received from the Faculty on the following parameters:

Q1.Curriculum designed is in tune with program Vision and Mission
Q2.Contents of the curriculum enhances the core competencies and employability skills
Q3.Allocation of Credits to the Courses Satisfiable
Q4.Contact Hour Distribution among the various Course Components (LTP) is Satisfiable
Q5.Electives offered in the program makes the faculty to explore latest technologies
Q6.Curriculum providing opportunity towards self-learning to meet the expectations
Q7.Composition of Basic Sciences, Engineering, Humanities and Management Courses Satisfiable
Q8.Number of theoretical courses and laboratory sessions sufficient to improve the technical skills of students

The categorization of rating is as follows: Strongly Agree (5), Agree (4), Moderate (3), Disagree (2) and Strongly Disagree (1).

Feedback Analysis is carried based on Average Satisfaction Rating. Rating categorization is carried based on Excellent (≥ 4); Very Good ($\geq 3.5 \& < 4$); Good ($\geq 3 \& < 3.5$); Moderate ($>2 \& < 3$) and Unsatisfactory (<2).

Feedback from Faculty 2016-17 (Academic Year) - UG – B. Tech (ME)

The result derived in terms of percentage of Faculty with common views, average score, and ratings is presented in Table 3.

Table 3: Analysis of feedback from Faculty 2016–17

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	92.9	2.4	4.8	0	0	4.885	Excellent
Q2	95.2	4.8	0	0	0	4.952	Excellent
Q3	4.8	95.2	0	0	0	4.048	Excellent
Q4	100	0	0	0	0	5	Excellent
Q5	0	100	0	0	0	4	Excellent
Q6	73.8	26.2	0	0	0	4.738	Excellent
Q7	100	0	0	0	0	5	Excellent
Q8	71.4	28.6	0	0	0	4.714	Excellent

The highest score of 5 was given to the parameter "Contact Hour Distribution among the various Course Components (LTP) is Satisfiable" and "Composition of Basic Sciences, Engineering, Humanities and Management Courses Satisfiable" and has been rated as Excellent.

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It is clearly visible from the table that the parameters "Contents of the curriculum enhances the core competencies and employability skills" and "Curriculum designed is in tune with program Vision and Mission" obtained average scores 4.952 and 4.885 respectively and has been rated as Excellent.

From the table that the parameters "Curriculum providing opportunity towards self-learning to meet the expectations" and "Number of theoretical courses and laboratory sessions sufficient to improve the technical skills of students" obtained average scores 4.738 and 4.714 respectively and has been rated as Excellent. The parameters "Allocation of Credits to the Courses Satisfiable" and "Electives offered in the program makes the faculty to explore latest technologies" obtained average scores 4.048 and 4 respectively and has been rated as Excellent.

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FEEDBACK ANALYSIS OF PARENTS ON B.Tech-Mechanical Engineering Curriculum in AY: 2016 – 17

Feedback has been received from the parents on the following parameters:

Q1. Satisfaction of Academic and Emotional Progression of your ward
Q2. Satisfaction with the offered curriculum for your wards future endeavors
Q3. Overall assessment of technical knowledge acquired by your ward who is pursuing his/her program in our University
Q4. Your ward's competency with the students from other Institutes
Q5.– Curriculum offered is in tune with current Industry needs

The categorization of rating is as follows: Strongly Agree (5), Agree (4), Moderate (3), Disagree (2) and Strongly Disagree (1).

Feedback Analysis is carried based on Average Satisfaction Rating. Rating categorization is carried based on Excellent ($\geq$4); Very Good ($\geq$3.5&<4); Good ($\geq$3&<3.5); Moderate (>2 &<3) and Unsatisfactory (<2)

Feedback from Parent 2016-17 (Academic Year) - UG – B. Tech (ME)

The result derived in terms of percentage of Parent with common views, average score, and ratings is presented in Table 4.

Table 4: Analysis of feedback from Parent 2016–17

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	95.7	4.3	0	0	0	4.957	Excellent
Q2	16.4	83.6	0	0	0	4.164	Excellent
Q3	39.7	59.5	0	0	0	4.365	Excellent
Q4	16.4	83.6	0	0	0	4.164	Excellent
Q5	99.1	0.9	0	0	0	4.991	Excellent

The highest score of 4.991 was given to the parameter "Curriculum offered is in tune with current Industry needs" is rated as Excellent followed by "Satisfaction of Academic and Emotional Progression of your ward" and "Overall assessment of technical knowledge acquired by your ward who is pursuing his/her program in our University" has the score of 4.991 and 4.365 respectively has been rated Excellent.

It is clearly visible from the table that the parameters "Satisfaction with the offered curriculum for your wards future endeavors" and "Your ward's competency with the students from other Institutes" average scores 4.164 and has been rated as Excellent.

FEEDBACK ANALYSIS OF STUDENTS ON B.Tech-Mechanical Engineering Curriculum in AY: 2016 – 17

Feedback has been received from the students on the following parameters:

Q1. Course Contents of Curriculum in tune with the Program Outcomes

Q2. Course Contents designed and value added courses offered enriches Core Competencies

Q3. Courses offered in the curriculum serves the needs of both Mechanical Industries and IT sector

Q4. Contact-Hour Distribution among the various Course Components (LTP) is Satisfiable

Q5. Electives have enabled the passion to learn new technologies in emerging and Interdisciplinary Areas

Q6. Curriculum providing enable towards self-learning

Q7. Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable

Q8. No. of Laboratory sessions and Theory Courses have been sufficient to improve the technical skills

The categorization of rating is as follows: Strongly Agree (5), Agree (4), Moderate (3), Disagree (2) and Strongly Disagree (1).

Feedback Analysis is carried based on Average Satisfaction Rating. Rating categorization is carried based on Excellent ($\geq$4); Very Good ($\geq$3.5&<4); Good ($\geq$3&<3.5); Moderate (>2 &<3) and Unsatisfactory (<2)

Feedback from Students 2016-17 (Academic Year) - UG – B. Tech (ME)

The result derived in terms of percentage of students with common views, average score, and ratings is presented in Table 5.

Table 5: Analysis of feedback from Students 2016–17

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	81	19	0	0	0	4.81	Excellent
Q2	95.7	3.5	0.3	0	0.6	4.94	Excellent
Q3	32.9	67.1	0	0	0	4.329	Excellent
Q4	5.2	93.1	1.2	0	0.6	4.026	Excellent
Q5	3.5	96.5	0	0	0	4.035	Excellent
Q6	99.7	0	0.3	0	0	4.994	Excellent
Q7	9.8	89.9	0	0	0.3	4.089	Excellent
Q8	7.8	92.2	0	0	0	4.078	Excellent

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The highest score of 4.994 was given to the parameter "Curriculum providing enable towards self-learning" followed by "Course Contents designed and value added courses offered enriches Core Competencies" and "Course Contents of Curriculum in tune with the Program Outcomes" with a scores of 4.94 and 4.81 has been rated as Excellent.

It is clearly visible from the table that the parameters "Courses offered in the curriculum serves the needs of both Mechanical Industries and IT sector", "Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable", "No. of Laboratory sessions and "Theory Courses have been sufficient to improve the technical skills" obtained average score of 4.329, 4.089, 4.078 respectively has been rated as Excellent.

The scores of 4.026 and 4.035 are given to the parameters "Contact Hour Distribution among the various Course Components (LTP) is Satisfiable" and "Electives have enabled the passion to learn new technologies in emerging and Interdisciplinary Areas" respectively has been rated Excellent.

Chairman,
CDMC